

AMENDMENTS TO THE CLAIMS:

Please amend the claims as follows, substituting any amended claim(s) for the corresponding pending claim(s):

1 1. (Original) For use in a wireless access network, a TDD FDD system comprising:
2 a first base station and a first subscriber unit within a first sector, the first base station
3 transmitting to the first subscriber unit on a downlink frequency during a first time period and the
4 first subscriber unit transmitting to the first base station on an uplink frequency during a second time
5 period following the first time period; and
6 a second base station and a second subscriber unit within a second sector adjacent to
7 the first sector, the second base station transmitting to the second subscriber unit on the downlink
8 frequency during the second time period and the second subscriber unit transmitting to the second
9 base station on the uplink frequency during the first time period.

1 2. (Original) The system as set forth in Claim 1, wherein the first base station is the
2 second base station and the first and second sectors are adjacent sectors within a single cell.

1 3. (Original) The system as set forth in Claim 1, wherein the first base station is
2 separate from the second base station and the first and second sectors are adjacent sectors within
3 adjoining cells.

1 4. (Original) The system as set forth in Claim 1, wherein the downlink frequency and
2 the uplink frequency are separated by a predefined duplex spacing, and wherein filtering of received
3 signals at the downlink and uplink frequencies prevents out-of-band transmission signal strength
4 from reaching an interference level.

1 5. (Original) A transceiver, comprising:
2 means for transmitting or receiving on a first frequency designated for downlink
3 transmission within a first sector during a first time period; and
4 means for receiving or transmitting on a second frequency different from the first
5 frequency and designated for uplink transmission within the first sector during a second time period
6 following the first time period,
7 wherein the first frequency is employed for downlink transmission during the second
8 time period within a second sector adjacent to the first sector and the second frequency is employed
9 for uplink transmission during the first time period within the second sector.

1 6. (Original) The transceiver as set forth in Claim 5, wherein the means for transmitting
2 or receiving on a first frequency designated for downlink transmission within a first sector during
3 a first time period further comprises:

4 a base station transmitting to a subscriber unit within the first sector.

1 7. (Original) The transceiver as set forth in Claim 5, wherein the means for transmitting
2 or receiving on a first frequency designated for downlink transmission within a first sector during
3 a first time period further comprises:

4 a subscriber unit within the first sector receiving from a base station.

1 8. (Original) The transceiver as set forth in Claim 5, wherein the means for receiving
2 or transmitting on a second frequency different from the first frequency and designated for uplink
3 transmission within the first sector during a second time period following the first time period further
4 comprises:

5 a base station transmitting to a subscriber unit within the second sector.

1 9. (Original) The transceiver as set forth in Claim 5, wherein the means for receiving
2 or transmitting on a second frequency different from the first frequency and designated for uplink
3 transmission within the first sector during a second time period following the first time period further
4 comprises:

5 a subscriber unit within the second sector receiving from a base station.

1 10. (Original) For use in a wireless access network, a method of time sharing frequencies
2 reserved for FDD operation comprising the steps of:

3 transmitting to a subscriber unit within a first sector during a first time period on a
4 downlink frequency designated for downlink transmission;

5 receiving from the subscriber unit within the first sector during a second time period
6 following the first time period on an uplink frequency designated for uplink transmission;

7 transmitting to a subscriber unit within a second sector adjacent to the first sector
8 during the second time period on the downlink frequency; and

9 receiving from the subscriber unit within the second sector during the first time period
10 on the uplink frequency.

1 11. (Original) The method as set forth in Claim 10, wherein the steps of transmitting to
2 a subscriber unit within a first sector during a first time period on a downlink frequency designated
3 for downlink transmission and transmitting to a subscriber unit within a second sector adjacent to
4 the first sector during the second time period on the downlink frequency further comprise:
5 transmitting from a single base station to adjacent sectors within a single cell.

1 12. (Original) The method as set forth in Claim 10, wherein the steps of transmitting to
2 a subscriber unit within a first sector during a first time period on a downlink frequency designated
3 for downlink transmission and transmitting to a subscriber unit within a second sector adjacent to
4 the first sector during the second time period on the downlink frequency further comprise:
5 transmitting from different base stations to adjacent sectors within adjoining cells.

1 13. (Currently Amended) A signal pattern for time sharing frequencies reserved for FDD
2 operation, comprising:

3 downlink transmission to one or more subscribers within a first sector during a first
4 time period on a downlink frequency designated for downlink transmission;

5 downlink transmission to one or more subscribers within a second sector adjacent the
6 first sector during a second time period following the first time period on the downlink frequency;

7 uplink transmission from the one or more subscribers within the first sector during
8 the second time period on an uplink frequency designated for uplink transmission; and

9 uplink transmission from the one or more subscribers within the second sector during
10 the first time period on the uplink ~~frequency~~ frequency,

11 wherein the downlink and uplink transmissions alternate between sectors in sequential time
12 periods on dedicated frequencies.

1 14. (Original) The signal pattern of claim 13, wherein the downlink transmission occurs
2 within the first sector on the downlink frequency concurrently with uplink transmission in each
3 adjoining sector on the uplink frequency, and the uplink transmission occurs within the first sector
4 on the uplink frequency concurrently with downlink transmission in each adjoining sector on the
5 downlink frequency.

ATTORNEY DOCKET NO. WEST14-00023
U.S. SERIAL NO. 09/839,075
PATENT